

## SECTION G TECHNICAL SPECIFICATION

### A. NAME OF PROJECT

Gerald Gentleman Station (GGS) Units 1 & 2 Multi-Pollutant Control Project

### B. LOCATION OF PROJECT

Gerald Gentleman Station  
6089 South Highway 25  
Sutherland, NE 69165-0068

Note: I hope tht the GGS 2 LNB will be installed before we issue this contract so we would then need to rewrite this paragraph slightly. Don Muhle

### C. DESCRIPTION OF PROJECT

The Gerald Gentleman Station Units 1 & 2 have a nominal rating of 705 MW and 745 MW, respectively. Unit 1 incorporates a Foster-Wheeler opposed wall-fired boiler, firing Powder River Basin (PRB) fuels, and Unit 2 incorporates a Babcock & Wilcox opposed wall-fired boiler, firing PRB fuels. Unit 1 is currently equipped with low NO<sub>x</sub> burners (LNBs). Particulates are controlled using three reverse-gas baghouses for each unit. Units 1 and 2 were both equipped with hot-side ESPs. Unit 1 ESP has been completely removed from the gas path system using a bypass duct. Unit 2 ESP is still part of the gas path, but with its internals removed. NPPD plans to demolish the ESPs prior to installation of the SCR system. ↓

The purpose of the Project is to reduce plant emissions by adding pollution control equipment. A wet FGD system will be added to each unit to reduce SO<sub>2</sub> emissions. Low NO<sub>x</sub> burners will be added to Unit 2 to reduce NO<sub>x</sub> emissions, and SCRs will be added to both units for further NO<sub>x</sub> emission reduction.

Each unit's FGD system shall be the limestone slurry, forced oxidation type using a single absorber tower. Reagent preparation and FGD waste dewatering facilities shall be common to both units. Makeup water will be provided by expanding the station's existing well-supplied water system.

### D. TECHNICAL REQUIREMENTS

The attached technical specification G-5301, developed by the DISTRICT's Consulting Engineer, Sargent & Lundy LLC, Chicago, Illinois, encompasses the technical requirements for this Contract.

Note: I think it would be good if we had a short paragraph that summarizes the specific scope for each contract on this cover document. Don Muhle